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	Application No.	Applicant(s)	
,	10/743,419	MAIER, LAWRENCE	CARL
Notice of Allowability	Examiner	Art Unit	
	DONNIE L. CROSLAND	2612	 -
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTOI NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR	S IS (OR REMAINS) CLOSED in the L-85) or other appropriate communing RIGHTS. This application is sub	is application. If not include cation will be mailed in due c	d course. THIS
1. \boxtimes This communication is responsive to $\underline{communication}$	filed 12-22-03.		
2. ⊠ The allowed claim(s) is/are <u>1-33</u> .			
 3. Acknowledgment is made of a claim for foreign prior a) All b) Some* c) None of the: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 	have been received.		
3. Copies of the certified copies of the priori	ty documents have been received in	this national stage applicati	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DA noted below. Failure to timely comply will result in ABAND THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the req	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which			OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets")) must be submitted.		
(a) I including changes required by the Notice of Drafts	sperson's Patent Drawing Review (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date _	·		
(b) including changes required by the attached Example Paper No./Mail Date	niner's Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 Ceach sheet. Replacement sheet(s) should be labeled as suc	CFR 1.84(c)) should be written on the ching the hin the header according to 37 CFR 1	drawings in the front (not the I.121(d).	back) of
 DEPOSIT OF and/or INFORMATION about the of attached Examiner's comment regarding REQUIREM 	deposit of BIOLOGICAL MATER ENT FOR THE DEPOSIT OF BIOLO	IAL must be submitted. N DGICAL MATERIAL.	ote the
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Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Infor	mal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-9	6. Interview Sum	mary (PTO-413), iil Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. ⊠ Examiner's An	nendment/Comment	
 Faper No./Mair Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 	osit 8. 🛭 Examiner's Sta	atement of Reasons for Allov	vance
g	9. Other		
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: **Claim 29,** line 4, "is" was changed to **-in**-.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The primary reason for allowing this application is the specific recitation in claim 1 of a multiplexer switch that includes at least one field effect transistor, an isolation circuit and a drive circuit whereby the isolation circuit electrically isolate the drive circuit from the field effect transistor to limit energy coupled to the signal line through the at least one field effect transistor to below levels that could initiate an ignition of the potentially explosive environment of the tank. Claim 11 recites the multiplexing system that includes a multiplexer switch for each sensor and includes a drive circuit whereby the isolation circuit electrically isolate the drive circuit from the field effect transistor to limit energy coupled to the signal line through the at least one field effect transistor to below levels that could initiate an ignition of the potentially explosive environment of the tank. Claim 29 recites the method of multiplexing an excitation signal from a common excitation

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circuit to a plurality of sensors disposed in a tank containing a potentially explosive environment and includes the steps of disposing a multiplexer switch in series with each signal line; isolating each multiplexer switch from a corresponding drive circuit to limit energy to below levels that could initiate an ignition of the potentially explosive environment; and controlling the drive circuit to multiplex the excitation signal from the excitation circuit to selected sensors of the plurality through the corresponding multiplexer switches.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONNIE L. CROSLAND whose telephone number is 571-272-2980. The examiner can normally be reached on Mon-Thur. 9:30a-6:00p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL HORABIK can be reached on 571-272-3068. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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DONNIE/L. CROSLANI Primary Examiner Art Unit 2612

DLC // 1-31-07